

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

Environmental Services Branch 10625 Fallstone Road, Houston, TX 77099 Phone: (281)983-2100 Fax: (281)983-2248

Amended Final Analytical Report

Site NameDimock Residential Groundwater Site
Sample Collection Date(s) 03/05/12 - 03/08/12
Contact Cynthia Caporale (3EA21)
Report Date05/01/12
Project # 12SF073
Work Order(s)1203005
1203007
1203012

Analyses included in this report:

ABN Glycols

Report Narrative

This report has been amended to correct the date of collection on sample 1203007-04 from 03/07/12 to 03/06/12.

The reporting limit for these compounds is 2 mg/L. The nominal detection limit is 0.5 mg/L. There were no compounds detected between the detection limit and the reporting limit.

On the day the samples were analyzed propylene glycol was left out of the Blank Spike (BS). Both ethylene and propylene glycol were spiked into the MS/MSD and the recoveries were acceptable. Because the MS/MSD can substitute for the BS in the method the samples were not reanalyzed. A blank and BS were reanalyzed additionally at a later date and results were acceptable. No targets were detected in the samples.

Concentrations reported in the QC have changed slightly since the draft report was issued due to a minor change in the calibration and an adjustment to the volume used for the matrix spikes determined during the final data review process.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

Richard McMillin

Region 6 Laboratory Manager

David Neleigh

Region 6 Laboratory Branch Chief

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Dimock Residential Groundwate	er Site Project Number: 12SF073
Data Management Coordinator: Christy Wa	
Data Management Coordinator Signature	5/2 /12— Date
Date Transmitted: 5/2/17	
Please have the U.S. EPA Project Manager/Comments or questions.	Officer call the Data Management Coordinator at 3-2137 for any
Please sign and date this form below and retu	urn it with any comments to:
Christy Warren Data Management Coordinator Region 6 Laboratory 6MD-HS	
Received by and Date	
Comments:	
The laboratory routinely disposes of samples hold these samples in custody longer than 90	s 90 days after all analyses have been completed. If you have a need to days, please sign below.
Signature	Date
Please provide a reason for holding:	



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ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
FB19	1203005-01	Liquid	3/5/12 9:36	03/07/12 09:50
HW56	1203005-02	Liquid	3/5/12 16:54	03/07/12 09:50
HW60	1203005-03	Liquid	3/5/12 12;25	03/07/12 09:50
FB20	1203007-01	Liquid	3/6/12 14:00	03/08/12 09:00
HW61	1203007-02	Liquid	3/6/12 15:42	03/08/12 09:00
HW61-P	1203007-03	Liquid	3/6/12 16:00	03/08/12 09:00
HW61z	1203007-04	Liquid	3/6/12 15:42	03/08/12 09:00
FB21	1203012-01	Liquid	3/8/12 13:38	03/09/12 09:30
HW50	1203012-02	Liquid	3/8/12 15:09	03/09/12 09:30

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DIM0093661 DIM0093655



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-01

Station ID: FB19

Batch: B2C0702

Date Collected: 03/05/12 Sample Vol: 1ml

Sample Qualifiers:

Sample Type: Liquid Samp

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	II.	. "	lt .
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kws

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-02

Station ID: HW56

Batch: B2C0702 Sample Type: Liquid Date Collected: 03/05/12 Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	Ŭ.		2.0	H	11	**
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Region 6 Laboratory

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-03

Station ID: HW60

Batch: B2C0702 Sample Type: Liquid Date Collected: 03/05/12 Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	11	
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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-01

Station ID: FB20

Batch: B2C0702 Sample Type: Liquid Date Collected: 03/06/12

Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	11	17	11
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Region 6 Laboratory

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-02 Batch: B2C0702

Sample Type: Liquid

Date Collected: 03/06/12

Sample Vol: 1ml

Station ID: HW61

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	11	Ħ	"

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-03

Station ID: HW61-P

Batch: B2C0702 Sample Type: Liquid

Date Collected: 03/06/12

Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	11	"	17
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Region 6 Laboratory

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-04

Station ID: HW61z

Batch: B2C0702 Sample Type: Liquid Date Collected: 03/06/12 Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U	4.0	2.0	11	11	Ħ
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Region 6 Laboratory

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203012-01

Station ID: FB21

Batch: B2C0702 Sample Type: Liquid Date Collected: 03/08/12

Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	11	n .	"
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Region 6 Laboratory

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203012-02

Station ID: HW50

Batch: B2C0702 Sample Type: Liquid Date Collected: 03/08/12 Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	н	11	rr

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Region 6 Laboratory

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2C0702 Sample Type: Liquid

Blank (B2C0702-BLK1)

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result Ai mg/L Qu	nalyte Reporting alifiers Limit	
Propylene glycol	U	2.0	
Ethylene glycol	U	2.0	

Blank (B2C0702-BLK2)

Prepared: 3/14/2012 Analyzed: 3/14/2012

Targets

ANALYTE	Result mg/L Q	Analyte Reporting Qualifiers Limit	
Propylene glycol	U	2.0	
Ethylene glycol	U	2.0	

LCS (B2C0702-BS1)

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE		Analyte Reporting Qualifiers Limit		%REC %REC Limits
Ethylene glycol	53.0	2.0	50.0	106 70-130

LCS (B2C0702-BS2)

Prepared: 3/14/2012 Analyzed: 3/14/2012

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit	Spike Level	%REC %REC Limits
Propylene glycol	50.6	2.0	50.0	101 70-130
Ethylene glycol	58.0	2.0	50.0	116 70-130

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2C0702 Sample Type: Liquid

Matrix Spike (B2C0702-MS1)

Source: 1203005-02

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte R Qualifiers	eporting Limit	Spike Level	Source Result	%REC	%REC Limits	
Propylene glycol	55.7	. •	2.0	66.7		83.6	70-130	
Ethylene glycol	67.6		2.0	66.7		101	70-130	

Matrix Spike Dup (B2C0702-MSD1)

Source: 1203005-02

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Propylene glycol	53.7	2.0	66.7		80.6	70-130	3.61	30
Ethylene glycol	67.5	2.0	66.7		101	70-130	0.08	30

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

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STATES TO STATES

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

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10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Charles Char	USEPA CLP GE	USERA CLP Genrale COC (LAB COPY)	(Yek)		CHAIN OF CLX	CHAIN OF CUSTODY RECOND			No: 3-030812-165646-0262	2-165546-1	1262
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DIM0093675

STATES TO STATES

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Notes and Definitions

A This sample was extracted at a single acid pH.

HTS Sample was prepared and/or analyzed past recommended holding time. Concentrations should be

considered minimum values.

AES Atomic Emission Spectrometer

CVAA Cold Vapor Atomic Absorption

ECD Electron Capture Detector

GC Gas Chromatograph

GFAA Graphite Furnace Atomic Absorption

ICP Inductively Coupled Plasma

MS Mass Spectrometer

NA Not Applicable

NPD Nitrogen Phosphorous Detector

NR Not Reported

TCLP Toxicity Characteristic Leaching Procedure

.U Undetected

Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

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